Monday, 12/05/2008 3:24:56 PM

Linda Lacelle User:

Process Sheet

: CU-DAR001 Customer

Job Number : 39208 **Estimate Number** : 10335

P.O. Number

Previous Run

Written By

: 12/05/2008 This Issue

: NC Prsht Rev.

: // First Issue

: 38796

Type

: SMALL /MED FAB

Drawing Number Project Number

Part Number

Drawing Name

Drawing Revision

Material

Due Date

: 19/05/2008

: D2010104

: N/A

: D2010 REV. C2

: MIRROR ARM

Qty:

1 Um:

Each

Checked & Approved By

Comment

: Est A 04.02.17

S.O. No. :

New issue KJ/JLM

Additional Product

Job Number:



Seq. #:

Description:

1.0

Comment: Qty.:

304 RD Tube .500 x .035W

1.5750 f(s)/Unit Total: 1.5750 f(s)

Material: 304/316 SS tubing 0.500" Dia. x 0,035" wall

(M304TR0500W035) NC BRAKE

per attached email (deviation)

BRAKENC

Comment: BRAKE NC

GA manual fabri

Punch per Dwg. D2010-104 and Spec Control Dwg. D2727

M 107518

3.0

SMALL & MEDIUM FAB RESOURCE



Identify as D2010-104

Comment: SMALL & MEDIUM FAB RESOURCE 1

1- Bend as per Dwg D2010 using bending Jig D2010-104T2

2- Deburr

D2057



Comment: Qty.:

1.0000 Each(s)/Unit Total:

1.0000 Each(s)

Plug batch

5.0

4.0

SMALL & MEDIUM FAB RESOURCE 1



Comment: SMALL & MEDIUM FAB RESOURCE 1

1- flare before installing plug as per dwg D2010

2- Install D2057 plug as per Dwg D2010

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES								
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
C8.65.17_	- 1	USE \$0.500 x 0.049 WALL MATIL INSTEAD OF 0.035" WALL				08.05.12 08.042	odvils			

Part No:	PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
	A Property of the Control of the Con		QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
DATE	STEP	Description of NC	Corrective Action Section B			Verification	Approval	Approval		
		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector		
		, , ,		·						
							**			
		,								
							1			
		. ,								

NOTE: Date & initial all entries

Monday, 12/05/2008 3:24:56 PM Date: Linda Lacelle User: **Process Sheet** Customer: CU-DAR001 **Drawing Name: MIRROR ARM** Job Number: 39208 Part Number: D2010104 Job Number: Seq. #: **Machine Or Operation:** Description: INSPECT WORK TO CURRENT STEP 6.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 7.0 POWDER COATING POWDER COATING Comment: POWDER COATING Powder Coat Black Sandtex (Ref: 4.3.5.7) as per QSI 005 4.3 START TIME: **OVEN TEMPERATURE:** FINISH TIME: 8.0 QC3 INSPECT POWDER COAT/CHEMICAL CONVERSION Comment: INSPECT POWDER COAT 9.0 PACKAGING 1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 10.0 FINAL INSPECTION/W/O RELEASE QC21

FINAL INCRECTIONANO DELEACI

Comment: FINAL INSPECTION/W/O RELEASE

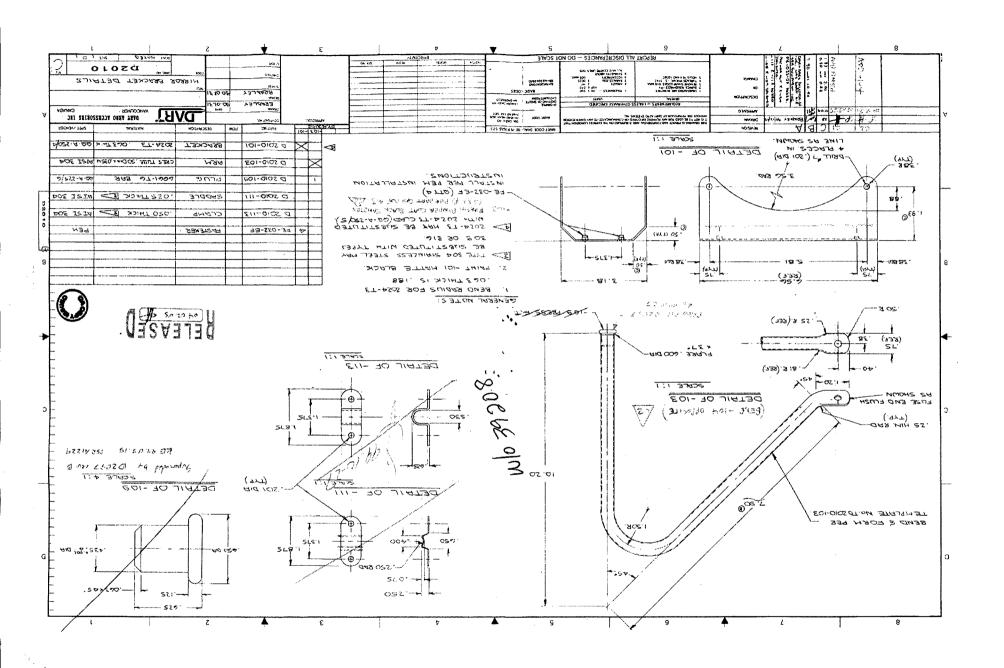
Job Completion



u 28.05.14

Dart Ae	rospace	Ltd			•				
W/O:			W	ORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE			Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
· · · · · · · · · · · · · · · · · · ·									
Part No	:	PAR #:	Fault Cat	egory:N	CR: Yes	No DQ	A:	Date:	
					QA: N	I/C Close	d:	_ Date: _	
NCR:		V	VORK ORE	DER NON-CONFORMANC	E (NCF	₹)			
DATE		Description of NC	Corrective Action Section B	Verii			Approval	Approval	
	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8	Secti	tion C	Chief Eng	QC Inspector
		•							

NOTE: Date & initial all entries



L Lacelle

From:

Bill Beckett [bbeckett@dartaero.com]

Sent:

May 12, 2008 3:16 PM

To:

'L Lacelle'

Cc:

'Sian Willems'; 'Dan Stow'; 'Chris Provencal'; 'David Shepherd'; 'Mike Petsche'

Subject: FW: R44 Mirror arm D2010-104

Linda.

Please make one of these up ASAP. I would like to ship as a no-charge to Canadian tomorrow.

Thanks,

Bill

From: David Shepherd [mailto:dshepherd@dartaero.com]

Sent: May 12, 2008 2:28 PM

To: 'Chris Provencal'; 'Mike Petsche' **Cc:** 'Peter Hum'; 'Bill Beckett'

Subject: RE: R44 Mirror arm D2010-104

This deviation is acceptable.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Monday, May 12, 2008 11:55 AM

To: 'Mike Petsche'; David Shepherd (David Shepherd)

Cc: Peter Hum; Bill Beckett

Subject: RE: R44 Mirror arm D2010-104

David,

If we make a tube with 0.049" wall, can we sign this off as a deviation on the w/o? That's the quickest way to get it out the door.

If this will be a permanent change we'll eventually need a new dwg and a new CHG #.

-Chris

From: Mike Petsche [mailto:mpetsche@dartaero.com]

Sent: May 12, 2008 9:36 AM

To: 'Bill Beckett'; 'Dan Stow'; 'Chris Provencal' **Cc:** 'L Lacelle'; 'David Shepherd'; 'Peter Hum' **Subject:** RE: R44 Mirror arm D2010-104

Iassume someone's rasing a new NCR.....We had one open from the last time this haapened but we never ended up getting broken part back. Pretty sure we ended up shutting it down.

It should be directed to Peter.

From: Bill Beckett [mailto:bbeckett@dartaero.com]

Sent: May 12, 2008 9:27 AM

To: 'Dan Stow'; 'Mike Petsche'; 'Chris Provencal'

Cc: 'L Lacelle'; 'David Shepherd'

Subject: RE: R44 Mirror arm D2010-104

Dan - Yup, let's send him a replacement mirror arm, but I don't want to send out something that has a good chance of failing.

Chris - I suggest we make an arm with 0.049" wall vs. the 0.035" called up on the drawing, and that we sign this off as a deviation. If this is acceptable, please advise Linda ASAP.

Mike - we need to come up with a permanent solution to this issue ASAP - I believe this will apply to the R22 and MD500 as well.

Bill

From: Dan Stow [mailto:dstow@dartaero.com]

Sent: May 12, 2008 8:05 AM **To:** Bill Beckett (Bill Beckett)

Subject: FW: R44 Mirror arm D2010-104

Importance: High

Bill.

I sent you this email last week. I am sending Russ to CHC today to pick up the skid and I need to know if you would like to send Claude a new R44 mirror arm and pick up the one that is cracked.

Dan Stow

Technical Support

Dart Aerospace

Tel: 613.632.5200 Cell:613.676.0992

dstow@dartaero.com

From: CBoule@canadianhelicopters.com [mailto:CBoule@canadianhelicopters.com]

Sent: May 8, 2008 10:04 AM

To: Dan Stow

Subject: RE: R44 Mirror arm D2010-104

Hi Dan

We have few that cracked.

I have in my hand one the cracked strut, can I shipped it to your attention, have your Engineer group to look at it for a fix.

Claude Boulé Chief Engineer, VFR, Qc/ On/ Nb. Tel: 450-452-3025 Fax: 450-452-2483 cboule@canadianhelicopters.com

"Dan Stow" <dstow@dartaero.com>

20/12/2007 04:15 PM

To <CBoule@canadianhelicopters.com>

CC

Subject RE: R44 Mirror arm D2010-104

Hi Claude,

I have heard about this problem once before and I thought that it might be an isolated incident... I guess not. I will bring this to the attention of the design team. If you could please supply me with the Batch # of the mirror assembly and a shipping address I will send out a new arm ASAP.

Thanks for the feedback.

Dan Stow
Technical Support
Dart Aerospace
Tel: 613.632.5200
Cell:613.676.0992

dstow@dartaero.com

From: CBoule@canadianhelicopters.com [mailto:CBoule@canadianhelicopters.com]

Sent: December 20, 2007 3:53 PM

To: dstow@dartaero.com

Subject: R44 Mirror arm D2010-104

Hi

We have been replacing the D2010-104 due to crack at the mirror attachment.

It is a weak point of the design.

See attached pictures.

Were you aware about This defect?

Claude Boulé Tel: 450-452-3025 Fax: 450-452-2483